

# Contents of Marine Review, Calendar Year, 1912

## INDEX TO VOLUME XLII

vessels.....Aug.	276
vessels.....Oct.	443
Remarks on paper "Raising the Dry	
.....April	133
New Orleans Transportation Co.—Steel	
.....Aug.	273
Manufacturer's Assn.—Twenty-fourth	
at New Orleans.....April	117
Co. building barges.....Jan.	25
Engineering Co.—Equipment on North At-	
lantic fleet.....Nov.	387
American-Hawaiian Steamship Co.—Description of new	
steamers for.....Oct.	319
American-Hawaiian Steamship Co.—Orders three new	
steamers.....June	207
American Ship Windlass Co.—Removed to Philadelphia Jan.	13
American Transportation Co.—New incorporation.....June	210
Anti-rolling tank—Frahm.....Jan.	20
Arkansas—Battleship—Trials of.....Aug.	274
Arkansas, Battleship—Trial trip of.....July	225
Atlantic City—New steamer.....May	154
Automatic storm oil device.....Feb.	74
Average lake freight rates.....Feb.	70
Average ore cargo for 1911.....Jan.	30
Average stay in lake ports of Pittsburgh Steamship Co.'s	
vessels.....Jan.	31

Barge-building by American Bridge Co.....Jan.	25
Barges, Steel—For Alabama & New Orleans Transporta-	
tion Co.....Aug.	273
Barnes, T. Howard—Notes on Pile Protection.....Feb.	66
Bartlett & Snow Co., C. O.....March	101
Bartow, Capt. John H.—Obituary.....Aug.	275
Bates, William Wallace—Obituary.....Jan.	32
Battleship Arkansas—Trials of.....Aug.	274
Battleship Arkansas—Trial trip of.....July	225
Battleship Florida's trials—Date of.....July	238
Battleship New York launched.....Nov.	386
Battleships Oklahoma and Nevada—Contracts awarded	
for.....Feb.	63
Battleships Oklahoma and Nevada—General dimensions	
and features of.....March	89
Battleships—Question of smaller ones.....Sept.	296
Battleship Texas launched.....June	208
Battleship Wyoming—Trials of.....Sept.	285
Beale—Torpedo boat destroyer—Trials of.....Sept.	316
Beardmore semi-Diesel heavy oil engines—Description of Oct.	344
Bellechasse—Steamer—Launched.....Aug.	274
Benefit association planned by Pittsburgh Steamship Co. April	131
Bids for gunboat.....March	81
Bids for gunboat Monacacy.....July	241
Boas, Emil L.—Obituary.....May	173
Boiler for steamer Owego—Description of new.....Jan.	14
Boiler—New marine water-tube type—Description of March	105
Bonds on Canadian steamers.....July	234
British admiralty floating dock.....July	243
British Board of Trade—Suggestions resulting from Ti-	
tanic disaster.....Sept.	303
British committee on bulkheads.....July	236
Brown, Capt. J. J. H.—Obituary.....July	240
Bulkheads—British committee on.....July	236
Bulk freighter and the lake trade.....Aug.	273
Bulk freighters on the lakes built since 1902.....Feb.	64
Burrows Bros.—Nautical Library exhibit at Lake Car-	
rier's Assn. meeting.....Feb.	72
Burt, Capt. George—Rewarded for act of heroism by	
Pittsburgh Steamship Co.....Feb.	69

### BOOK REVIEWS

Hendrick's Commercial Register of the United States.....Oct.	329
Lloyds Register of American Yachts.....July	237
Marine Directory of the Great Lakes—By Mitchell &	
Co.....May	172
"Modern Boiler Tube, The"—By National Tube Co.....July	244
Ship Fittings and Wirings—By T. M. Johnson.....May	172
Temperature-Entropy Diagram, The—By Prof. Chas. W.	
Berry.....Feb.	68

Camellia—Lighthouse tender.....Jan.	8
Campbell-Dredger—Brief description of.....Aug.	261
Canadian Pacific Railway—New steamer for.....Aug.	274
Canadian steamers—Bonds on.....July	234
Canadian steamship lines—Merger of.....June	194
Carels-Diesel engine—Description of.....Sept.	306
Carels-Diesel ship for great lakes.....Sept.	310
Carels marine Diesel engine—Large—Communication	
from W. R. Haynie.....Sept.	310
Car ferry Henderson—Gasoline—Description of.....Sept.	298
Cargo transference at steamship terminals—Remarks by	
George A. Mattsson.....Feb.	51
Cargo transference at steamship terminals—Remarks by	
W. D. Forbes.....Feb.	50
Cargo transference at steamship terminals—Remarks by	
Sir Wm. Henry White.....Feb.	51
Carlisle & Finch Co.—Marine searchlights.....Feb.	72
Centrifugal pump—New type of.....Sept.	287
Chain graphite—Joseph Dixon Crucible Co.....March	93
Champion, D. J.—"Steel Rivets".....April	140
Chicago drainage canal.....March	108
Chicago drainage canal—Diversion of lake water.....April	142
Chinese training ship Fei Hung—Launch of.....June	201
Christian X—Diesel-engined ship—Description of.....Oct.	330
City of Detroit III—Description of new steamer.....July	213
City of Detroit III—New passenger steamer nearing	
completion.....Feb.	57
City of Seattle—Steamer—Remarkable case of grounding Sept.	303
Cleveland & Buffalo Transit Co.—To build largest side-	
wheel passenger steamer in world.....April	138
Cleveland Flue Cleaner Mfg. Co.—Patent flue cleaner.....Jan.	35
Cleveland harbor—By Col. John Millis.....June	198
Clyde Liner Lenape.....Sept.	286
Coaling our Pacific fleet.....Feb.	62
Coast ship yards—Work in.....March	79
Collier Jupiter—Description of.....Sept.	320
Collier Middlesex—Launch of.....Oct.	326
Collier Orion—Description of.....Oct.	327
Collier Orion—Launch of.....April	116
Collingwood Ship Building Co.—Activities of.....Sept.	286
Colman dock at Seattle—Damaged by accident.....June	208
Columbia—Description of steamer.....Oct.	338
Commerce of Lake Superior.....Jan.	31
Committee on bulkheads—British.....July	236
Commonwealth Steamship Co.—Federal court decision July	241
Concrete motor boat.....March	89
Copeland automatic circulating system.....Oct.	356
Corbin, Wm. Horace—Obituary.....Nov.	389
Corozal—Largest ladder dredge in the world.....March	78
Cost estimating for jobbing work—By J. A. Furer.....Sept.	281
Cramp & Sons Ship & Engine Building Co.—Wm.—	
New machine shop.....Oct.	341
Cramp, Samuel H.—Obituary.....Nov.	389
Cramp's—New work at.....April	140
Crude oil engines—By Walter Pollock.....May	155
Crude oil engines—Kind design.....Aug.	270
Culebra cut—Work on.....Nov.	392
Cunard liner Laconia.....Jan.	8
Cunard liner Laconia—Description of.....March	90
Curr, Robert—Isherwood System of Ship Construction Sept.	291
Curr, Robert—Isherwood System of Ship Construction Oct.	350
Curr, Robert—Isherwood System of Ship Construction Nov.	388
Curtis, R. W.—Obituary.....Nov.	403
Dahl oil-burning system—Description of.....Aug.	258
Davis Dry Dock Co.—Description of new steamer build-	
ing by them for Ottawa Forwarding Co.....June	206
Davis, M. Mitchell—Tug—Peculiar plight of.....Oct.	351
Davock, W. B.—Obituary.....Nov.	389
Deckloads of Lumber—By Arthur R. Liddell.....Oct.	340
Depths of ocean.....Dec.	400
Petroit—A trans-Atlantic gasoliner.....July	320
Dewey—Dry Dock—Raising it—Comment on paper by	
L. S. Adams.....April	133
Dewey-Dry Dock—Raising it Remarks by Wm. T.	
Donnelly.....Feb.	43
Diesel, Pr. Rudolph—Address before American Society	
of Mechanical Engineers.....May	172

256095

# INDEX TO VOLUME XLII—Continued

Diesel engine—Carels marine type—Communication from W. R. Haynie .....	Sept.	310
Diesel engine—Carels type—Description of .....	Sept.	306
Diesel engine—Dock trial of .....	July	231
Diesel-engined 14,000-ton vessel .....	March	85
Diesel-engined ship Eavestone—First British-owned .....	Sept.	310
Diesel-engined ship Fordonian—Successful trials of .....	Oct.	354
Diesel-engined ship Jutlandia .....	July	234
Diesel-engined ship Monte Penedo—Description of .....	Oct.	321
Diesel-engined vessel Christian X—Description of .....	Oct.	330
Diesel-engined vessel Indian .....	July	229
Diesel engines—British-built .....	March	84
Diesel engines—Development by Swan & Hunter .....	Dec.	406
Diesel Engines for Ocean Ships—By George Sherwood Hodgins .....	April	114
Diesel engines in whalers—By J. Rendell Wilson .....	May	153
Diesel engines in yachts .....	March	89
Diesel engines on new vessel for Montreal Transportation Co. ....	Oct.	348
Diesel engines—Their advantages—By Sir J. Fortescue Flannery .....	Feb.	46
"Diesel Oil Engine"—By E. Orde .....	May	145
Diesel oil engines—Heavy .....	May	143
Diesel ship for South American service—"Monte Penedo" .....	Sept.	284
Dimboola—Steamer—Description of .....	June	212
Docks at Toledo—New coal and ore .....	Nov.	392
Dominion Coal Co.—Freighter for .....	July	230
Donnelly, W. T.—Electrically-driven steamer .....	Dec.	432
Donnelly, Wm. T.—Remarks on raising of the dry dock Dewey .....	Feb.	43
Dreadnought dock—Lifting trial of .....	Nov.	359
Dredge Corozal—Largest ladder dredge in the world .....	March	78
Dredge New Orleans—Brief description .....	Jan.	21
Dredge New Orleans—Description of .....	March	102
Dredger Campbell—Brief description of .....	Aug.	261
Dredger Robert Vassall—Brief description of .....	June	212
Dry Dock No. 4—New York Navy Yard—Description of July Duluth & Iron Range Ry.—Description of their new ore dock at Two Harbors .....	Feb.	52
Dyson, C. W.—Engineering Progress in the Navy .....	Dec.	416
Eavestone—First British-owned Diesel-engined ship .....	Sept.	310
Eckliff Automatic Circulator .....	Feb.	72
Electrically-driven ship for Montreal Transportation Co.—Description of .....	Oct.	348
Electric drive for lake freighter .....	July	237
Electric drive on collier Jupiter—Description of .....	Aug.	247
Electric impulse transmitter—Gardner-Ferguson type—Description of .....	Sept.	294
Erie Railroad Transit Line improvements .....	Oct.	352
Estevan—Lighthouse tender—Description of .....	Dec.	401
Estimating cost for jobbing work—By J. A. Furer .....	Sept.	281
Evans, Rear Admiral Robley D.—Obituary .....	Jan.	31
Evelyn, Steel freight steamer—Description of .....	June	195
Eveston—Oil-engined vessel .....	July	231
Experimental tank—Wax models of vessels .....	March	92

## EDITORIALS

Arbitrating collision cases .....	Feb.	61
Artificial waterways on the lakes .....	Nov.	380
Chicago drainage canal .....	March	94
Detail—Importance of .....	Feb.	61
Economy in operation of vessels .....	July	232
Floating docks—Large .....	Sept.	305
Foreign steamship conference .....	Jan.	26
Foreign steamship trust .....	April	129
Foreign steamship trust .....	May	167
Hawke-Olympic collision case .....	Jan.	27
Hawke-Olympic collision .....	Feb.	60
Interstate Commerce Commission on regulation of lake trade .....	April	128
Lake season of 1911 .....	Jan.	26
Lake season of 1912 .....	Dec.	439
Lake trade .....	Oct.	343
Launching Risks .....	June	196
Lifelboats—Seats assigned in them .....	Nov.	380
Motor lifeboats for ships .....	Sept.	375
Olympic-Hawke collision case .....	Jan.	27
Olympic-Hawke collision .....	Feb.	60
Ore loading docks .....	Feb.	60
Oversea trade .....	Dec.	438
Panama canal .....	Oct.	342

Panama canal act—Admitting ship materials free .....	Dec.	438
Panama canal act—Importing ship materials free .....	Nov.	380
Panama canal bill .....	Aug.	266
Panama canal bill .....	Sept.	304
Panama canal tolls .....	March	95
Panama canal tolls .....	April	128
Panama canal tolls .....	June	197
Panama—Its influence on Suez .....	March	95
Protection a necessity .....	March	94
Sherwood motor boat bill .....	March	95
Shipbuilding during 1911 in the United States .....	April	129
Shipbuilding in Borneo .....	Nov.	381
Ship Materials Free .....	Oct.	342
Ship yard census .....	Feb.	61
Statistics of internal commerce .....	Nov.	381
Steamship conference—Foreign .....	Jan.	26
Steel tariff—Report of Senate Committee on metal schedule .....	April	129
Suez canal—Enlargement of .....	Nov.	381
Titanic disaster—The .....	May	166
Titanic disaster—Investigation of Senate Commerce Committee .....	June	196
Titanic Disaster—The .....	Aug.	267
Wireless on board ship .....	July	232

Falls Hollow staybolt iron .....	Aug.	280
Fei Hung—Launch of Chinese training ship .....	June	201
Ferdinand & Co., L. W.—Marine glue .....	Feb.	74
First automatic unloading .....	Sept.	312
Firth, Frank J.—Obituary .....	April	132
Fishing steamer Frank Perry .....	July	240
Fitting out in lake yards .....	March	82
Fitzgerald, Richard—Tug—Description of .....	Oct.	329
Flannery, Sir J. Fortescue—Advantages of Diesel engines .....	Feb.	46
Floating dock for British Admiralty—Description of .....	July	243
Floating Dock—Medway—Description of .....	Oct.	333
Floating dry dock at Toronto .....	Sept.	313
Floating dry dock for Montreal—Description of .....	Sept.	293
Floating dry dock for Venezuelan government—Description of .....	April	113
Florida, Battleship—Data of her trials .....	July	238
Flue cleaner—Cleveland Flue Cleaner Mfg. Co. ....	Jan.	35
Forbes, W. D.—Life Saving Appliances .....	Dec.	426
Forbes, W. D.—Remarks on transference of cargo at steamship terminals .....	Feb.	50
Fordonian—Carels-Diesel ship for great lakes .....	Sept.	310
Fordonian—Successful trials of steamer .....	Oct.	354
Frahm anti-rolling tank—Description of .....	Jan.	20
France—Trans-Atlantique liner .....	May	155
Freight rates—Average lake .....	Feb.	70
Frieda—Launch of steamer .....	Nov.	387
Froude and Fulton—Paper by Prof. C. H. Peabody .....	Dec.	412
Froude, Experiments on—Discussion on Prof. C. H. Peabody's paper .....	Jan.	19
Fruhling suction dredge New Orleans—Description .....	March	102
F-3—Submarine—Trials of .....	July	235
Fuel consumption on Erie Railroad Transit Line's boats .....	July	239
Fuel economy in Union Steamboat Line's fleet .....	Jan.	9
Fuel lighter Pittsburgh—Description of .....	June	206
Fuel oil—Standard Oil Co. withdrawing sale of .....	Dec.	441
Fulton and Froude—Paper by Prof. C. H. Peabody .....	Dec.	412
Fumigating & Fire Extinguishing Co. of America—Sulphur Dioxide Fumigator .....	Feb.	74
Furer, J. A.—Cost of estimating for jobbing work .....	Sept.	281
Furness, Sir Christopher—Obituary .....	Dec.	440

Gardner-Ferguson electric impulse transmitter—Description of .....	Sept.	294
Gas-driven vessel Holzapfel I. ....	Oct.	332
Gasoline car ferry Henderson—Description of .....	Sept.	298
Gasoline power boat Detroit .....	July	230
General Electric Co.—Electric drive on collier Jupiter .....	Aug.	247
German-American Petroleum Co.—To build 14,000-ton vessel with Diesel engines .....	March	85
Government dredges—Bids opened .....	Feb.	68
Grace & Co.—Order four new vessels .....	Aug.	275
Grace & Co., W. R.—Plans of .....	Sept.	297
Grain trade of the lakes .....	Feb.	67
Great Lakes Dredge & Dock Co.—Contract for piers for high level bridge at Cleveland .....	Nov.	379
Great Lakes Protective Association—Third annual meeting of .....	Feb.	49

# INDEX TO VOLUME XLII—Continued

Great Northern Railway—New ore dock at Superior— Description of .....	Feb.	53
Griscom, Clement A.—Obituary .....	Dec.	440
Gunboat—Bids for .....	March	81
Gunboat Monacacy—Bids for .....	July	240
Gunnell, Elias—New sand barge—Description of .....	July	221
Hamburg-American Liner Imperator—Description of .....	Aug.	264
Hamburg-American motor-driven liner Christian X—De- scription of .....	Oct.	330
Hartley, H. J.—"Hydraulic Riveting" .....	April	119
Harvey, Charles T.—Obituary .....	April	132
Haug, John—Obituary .....	Oct.	351
Haver, Arthur H.—"The Monitor Type of Vessel" .....	Aug.	257
Hawke-Olympic collision case .....	April	121
Hawke-Olympic collision—Decision in case .....	Jan.	25
Haynie, W. R.—Large Carels marine Diesel engine .....	Sept.	310
Henderson—Gasoline car ferry—Description of .....	Sept.	298
Henley, Torpedo boat destroyer—Launch of .....	April	139
Hesper—Bark—In commission .....	Sept.	316
Hocking Valley Railroad Co.'s new docks at Toledo .....	Nov.	392
Hollow staybolt iron—Description of .....	Aug.	280
Holzappel I—Experience with—By A. C. Holzappel .....	May	148
Holzappel I—Gas-driven vessel .....	Oct.	332
Hopper steamer Preesall .....	Dec.	399
Horse power to kilowatt—Relation of .....	Sept.	318
Hovgaard, Com. Wm.—"Watertight Subdivision of Lin- ers" .....	July	227
Hulbard, John W., et al.—Purchase river property .....	Oct.	353
Hunt, Capt. W. J.—Rewarded for act of heroism by Pittsburgh Steamship Co. ....	Feb.	68
Hydraulic Riveting—By H. J. Hartley .....	April	119
Imperator—Hamburg-American Liner—Description of .....	Aug.	264
Independence—Preserving old war craft .....	April	116
Independent—Steamer—Raising her .....	April	120
Indian—Diesel-engined vessel .....	July	229
Indiana Harbor—Improvements proposed for .....	May	155
Internal commerce—Statistics of .....	Dec.	398
International Congress of Navigation—Twelfth .....	March	104
International Navigation Congress—Convention in Phila- delphia—Proceedings of .....	June	177
Iron ore on Lake Erie docks .....	Jan.	27
Iron ore receipts at Lake Erie ports during 1911 .....	Jan.	28
Iron ore receipts at Lake Michigan ports during 1911 .....	Jan.	28
Isherwood patent granted .....	July	239
Isherwood System of Ship Construction—By Robert Curr .....	Sept.	291
Isherwood System of Ship Construction—By Robert Curr .....	Oct.	351
Isherwood System of Ship Construction—By Robert Curr .....	Nov.	388
Isherwood System of Ship Construction—By Robert Curr .....	Dec.	403
Isherwood System of Ship Construction—Communication from James Rees & Son .....	Aug.	275
Isherwood system of ship construction—Growth of .....	Jan.	8
Jarvis—Torpedo boat destroyer—Launched .....	April	139
Johnson Iron Works, Ltd.—Work at yard of .....	Oct.	326
Jones & Laughlin Steel Co.—Steel barge designed by them .....	Feb.	59
Jupiter—Collier—Electric drive en .....	Aug.	247
Jupiter—United States Collier—Description of .....	Sept.	300
Jutlandia—Diesel-engined ship .....	July	234
Keybell—Bulk freighter—Description of .....	Nov.	357
Kilowatt and horsepower—Relation between .....	Sept.	318
Kind crude oil engines .....	Aug.	270
Laconia—Cunard liner .....	Jan.	8
Laconia, Cunard liner—Description of .....	March	90
LaFavorite Rubber Mfg Co.—Life raft of Perry design .....	Aug.	280
Lake-built ships for salt water service .....	Aug.	272
Lake Carriers' Association—Annual meeting of .....	Feb.	41
Lake freight rates—Average .....	Feb.	70
Lake grain trade .....	Feb.	67
Lake launchings during 1911 .....	Jan.	6

Lake season of 1912—Close of .....	Dec.	443
Lake ship building—Brief summary of .....	Feb.	58
Lake Superior & Ishpeming Ry. Co.'s new ore dock at Presque Isle—Description of .....	Feb.	52
Lake trade and the bulk freighter .....	Aug.	273
Lake vessels—Wastage of steel ships during decade .....	Aug.	262
Lake yards—Fitting out in .....	March	82
Lenape—Clyde Liner .....	Sept.	286
Liddell, Arthur R.—Article on Deckloads of Lumber .....	Oct.	340
Lifeboats—Seats in .....	Dec.	442
Life raft of Perry design .....	Aug.	280
Life-saving equipment—Steamboat Inspection Service amends rules regarding it .....	July	226
Lighthouse tender Camellia .....	Jan.	8
Lighthouse tender Estevan—Description of .....	Dec.	401
Lighting sets on upper deck of vessels .....	Oct.	347
Lightship Milwaukee No. 95—Brief description of .....	Dec.	407
Livingstone channel—Opening of .....	Nov.	363
Loveridge, Ltd.—Automatic storm oil device .....	Feb.	74
Lundin decked lifeboat .....	June	209
Lovett, Judge Robert S.—Panama canal and the rail- roads .....	Nov.	388
Lyons, Commander Frank—Preservation of Metals .....	Dec.	430

## LAKE LAUNCHINGS

Calcite—conveying steamer—at Wyandotte .....	April	137
City of Grand Rapids—passenger steamer—at Cleveland .....	Apr.	137
Davidson, Louis R.—bulk freighter—at Ashtabula .....	April	137
Farrell, James A.—bulk freighter—at Lorain .....	Oct.	352
Osborn, Frank C.—sand steamer—at Cleveland .....	May	171
Ruby—steamer—at Ecorse .....	Sept.	312
See-and-Bee—passenger steamer—at Wyandotte .....	Nov.	366
Snyder, Wm. P. Jr.—Bulk Freighter at Ecorse .....	Feb.	58
Thousand Islander—passenger steamer—at Toledo .....	May	171
Warren, George T.—steamer—at Toledo .....	Sept.	312
McNab Co.—The Porhydrometer .....	Feb.	72
McNab engine indicators .....	Feb.	72
Maine—Battleship—Burial of .....	April	125
Manistee Iron Works Co.—Will manufacture Roturbo type of centrifugal pump .....	Sept.	287
Marine Engineers' Beneficial Association—Annual con- vention .....	Feb.	59
Marine gas engines .....	Oct.	332
Marine glue—L. W. Ferdinand & Co. ....	Feb.	74
Marine machinery under construction at different plants —Summary of .....	Jan.	5
Marine Steam Engineering—By Theodore Lucas .....	Nov.	382
Marine water-tube boiler—Description of new type .....	March	105
Maskinonge—Steamer—Brief description of .....	Dec.	404
Matson life raft .....	July	241
Mattsson, George A.—Remarks on cargo handling in port .....	Feb.	51
Medway dock—Lifting trial of .....	Nov.	359
Medway floating dock—Description of .....	Oct.	333
Melville, Rear Admiral George Wallace—Obituary .....	April	118
Meno Message Case .....	Feb.	72
Metallic packing—Metallic Packing & Mfg. Co. ....	Jan.	35
Miami and Unalga—New revenue cutters—Description of .....	March	75
Middlesex, Collier—Launch of .....	Oct.	326
Millis, Col. John—Harbor of Cleveland .....	June	198
Milton, J. T.—Paper on Diesel Engines for Ocean Ships .....	April	114
Milwaukee No. 95—Lightship .....	Dec.	407
Minnesota—Description of steamer .....	Oct.	319
Mississippi Valley, South America & Orient Steamship Co.—New service to South America .....	July	238
Models of vessels .....	March	92
Molasses steamer Nelson—Description of .....	Dec.	436
Monacacy—Gunboat—Bids for .....	July	240
Monel metal—A new propeller material .....	Jan.	32
Monitor Type of Vessel—By Arthur H. Haver .....	Aug.	257
Monopoly of Terminals—Private .....	July	232
Monte Penedo—Motor-driven ship—Description of .....	Oct.	321
Monte Penedo—Oil-engined vessel .....	Sept.	284
Montreal Transportation Co.—Description of electric- ally-driven ship building for them .....	Oct.	345
Mooring list of lake vessels .....	Jan.	36
Moreland, Str. W. C.—After portion of wreck taken to Detroit .....	Nov.	390

# INDEX TO VOLUME XLII—Continued

Motor-driven ship Selandia—Correction on article in March issue .....	April	116
Motor-driven ship Selandia—Description of .....	April	109
Motor-driven ship Selandia—Performance of .....	Aug.	251
Murphy, Alexander S.—Obituary .....	May	173
Nantucket—Steamer—Turned turtle .....	Oct.	353
National Tube Co. regrinding valves .....	Feb.	74
Naval collier Orion—Description of .....	Oct.	327
Naval strength of nations—Comparison of .....	Aug.	274
Naval tugs Sonoma and Ontario .....	Sept.	314
Nelson—Launch of steamer .....	Sept.	314
Nelson—Molasses steamer—Description of .....	Dec.	406
Nemadji—Power boat for government engineer at Duluth .....	July	231
Nevada and Oklahoma—Battleships—Brief particulars of Mar. .....	89	
Nevada and Oklahoma—Battleships—Contracts awarded .....	Feb.	63
Newhaven—Channel steamer—By P. Sigaudy .....	May	165
New Orleans—Government dredge .....	Jan.	21
New Orleans—Suction dredge—Description of .....	March	102
New York—Battleship—Launched .....	Nov.	386
New York Navy Yard—Dry Dock No. 4—Description of .....	July	222
Nixon, Lewis—Discussion on his paper "The Panama Canal and American Commerce" .....	Jan.	17
Nixon, Lewis—Paper on the Panama canal .....	Jan.	23
Oil barge on the Thames—Petrol-driven—Description of Jan. .....	40	
Oil-burning steamers .....	Oct.	329
Oil-burning steamers Sierra, Sonoma and Ventura .....	April	130
Oil-burning system—Dahl—Description of .....	Aug.	258
Oil consumption on Selandia .....	Nov.	394
Oil engine—Carels-Diesel type—Description of .....	Sept.	376
Oil-engined fishing schooners .....	Oct.	332
Oil-engined vessel Eveston .....	July	231
Oil-engined vessel—Largest .....	May	152
Oil engines—Advantages of Diesel type .....	Feb.	46
Oil engines—Crude—By Walter Pollock .....	May	155
Oil engines—Heavy—Diesel type .....	May	143
Oil engines—Kind type—Description of .....	Aug.	270
Oil engine—The semi-Diesel heavy type—By J. Rendell Wilson .....	Oct.	344
Oil fuel adopted by steamers Prince George and Prince Rupert .....	June	204
Oil tankers—Many building .....	Sept.	303
Oklahoma and Nevada—Battleships—Brief particulars of Mar. .....	89	
Oklahoma and Nevada—Battleships—Contracts awarded for .....	Feb.	63
Olympic-Hawke collision case .....	April	121
Olympic-Hawke collision—Decision in case .....	Jan.	25
Ontario and Sonoma—Naval tugs .....	June	207
Ontario and Sonoma—Naval tugs—Description of .....	Sept.	314
Ontario—government tug—Launched .....	May	173
Orde, E.—"Diesel Oil Engine" .....	May	145
Ore cargo for 1911—Average .....	Jan.	30
Ore dock of Pennsylvania Railway Co. at Cleveland .....	May	170
Ore-handling plant of Pennsylvania Co. at Cleveland .....	March	96
Ore loading docks—Description of new ones .....	Feb.	52
Ore on dock at Lake Erie ports May 1, 1912 .....	May	174
Ore rebating case .....	April	134
Ore receipts at Lake Erie ports during May .....	June	210
Ore receipts at Lake Erie ports during June .....	July	244
Ore receipts at Lake Erie ports during July .....	Aug.	275
Ore receipts at Lake Erie ports during August .....	Sept.	313
Ore receipts at Lake Erie ports during September .....	Oct.	353
Ore receipts at Lake Erie ports during October, November and December .....	Dec.	442
Ore shipments—April .....	May	174
Ore shipments—May .....	June	210
Ore shipments—June .....	July	244
Ore shipments—July .....	Aug.	275
Ore shipments—August .....	Sept.	313
Ore shipments—September .....	Oct.	352
Ore shipments—October .....	Nov.	390
Ore unloading record made by steamer Wm. P. Palmer Aug. .....	274	
Ore unloading record of steamer P. A. B. Wildener .....	Sept.	311
Orion—Collier—Launch of .....	April	116
Orion—Naval collier—Description of .....	Oct.	327
Ottawa Forwarding Co.—Brief description of new freighter for .....	June	206
Owego's new boiler—Description of .....	Jan.	14

Pacific fleet—Coaling it .....	Feb.	62
Palmer, Wm. P.—Steamer—Ore unloading record .....	Aug.	274
Panama canal act—Importing ship materials free .....	Dec.	402
"Panama Canal and American Commerce"—Discussion on paper by Lewis Nixon .....	Jan.	17
Panama canal and St. Thomas Island .....	March	103
Panama canal—Description of towing machine to be used in towing vessels through locks .....	Jan.	11
Panama canal—Judge Robert S. Lovett .....	Nov.	388
Panama canal—Paper by Lewis Nixon .....	Jan.	23
Panama canal tolls .....	Dec.	407
Panama canal—Work on Culebra cut .....	Nov.	392
Panama—Gasoline towboat .....	Jan.	33
Panama terminals .....	March	78
Pan-American Trade Conference—Assistance urged for shipping .....	June	212
Pastores—Steamer—Launch of .....	Sept.	296
Pattison, James—Marine Lighting Equipment of Panama Canal .....	Dec.	425
Peabody, Prof. C. H.—Discussion on his paper on "Experiments on the Froude" .....	Jan.	19
Peabody, Prof. C. H.—Paper on Fulton and Froude .....	Dec.	412
Pennsylvania Railway Co.'s ore dock at Cleveland .....	May	170
Pennsylvania Railway Co.'s ore handling plant at Cleveland .....	March	96
Perry, Frank—Fishing steamer .....	July	240
Petrol-driven tank barge—Description of .....	Jan.	40
Piers at Hoboken to be extended .....	Nov.	394
Piers for high level bridge at Cleveland—Contract for .....	Nov.	379
Pile protection—Notes on—By T. Howard Barnes .....	Feb.	66
Pittsburgh & Cincinnati Packet Co. purchased by John W. Hubbard et al. .....	Oct.	353
Pittsburgh—Fuel lighter—Description of .....	June	206
Pittsburgh Steamship Co.—Annual meeting of officials and captains .....	Jan.	29
Pittsburgh Steamship Co.—Proposed new benefit association .....	April	131
Pittsburgh Steamship Co.—Rewards captains for acts of heroism .....	Feb.	68
Pittsburgh Steamship Co.'s vessels—Average stay in lake ports of .....	Jan.	31
Pollock, Walter—Crude oil engines .....	May	155
Polson Dry Dock & Shipbuilding Co., Ltd.—Construct floating dry dock .....	Sept.	313
Porhyrometer—Brief description of the .....	Feb.	72
Post, Walter A.—Obituary .....	March	104
Potlatch—Launch of steamer .....	Oct.	337
Power boat Nemadji—Description of .....	July	231
Preesall—Hopper steamer .....	Dec.	399
Prince George—Steamer—Converted into oil burner .....	June	204
Prince Rupert—Steamer—Converted into oil burner .....	June	204
Private Monopoly of Terminals .....	July	232
Puerto Cabello sectional steel floating dock—Description of .....	April	113
Rardon, Capt. James J.—Obituary .....	Aug.	275
Rees & Son, James—Communication on Isherwood System of ship construction .....	Aug.	275
Rees & Son Co., James—Towboats for South America .....	Sept.	296
Regrinding valves—National Tube Co. .....	Feb.	74
Reliance—Tug—Remarkable tow of .....	Sept.	297
"Resistance of Some Merchant Ship Types in Shallow Water"—Discussion on paper by Prof. H. C. Sadler .....	Jan.	18
Revenue Cutter Service—Work of .....	April	122
Revenue cutters Unalga and Miami—Description of .....	March	75
Rivadavia—Argentine battleship—One of her rotors .....	May	165
Robinson, R. H.—Paper on Design of Construction Bureau .....	Dec.	415
Roturbo type of centrifugal pump .....	Sept.	287
Royal Mail Steam Packet Co.—Buys Union Castle line .....	May	176
Sadler, Prof. Herbert C.—Discussion on his paper "The Resistance of Some Merchant Ship Types in Shallow Water" .....	Jan.	18
St. Thomas Island and the Panama Canal .....	March	103
Sand barge Elias Gunnell—Description of .....	July	221
Sauber, Herman—Self-discharging collier—Description of .....	Dec.	395
Sault Canal report of commerce passing through during 1911 .....	Jan.	31
Sayre, Capt. C. E.—Obituary .....	July	243
Scherzer rolling lift bridge for England .....	Sept.	318
Schuetz Recording Compass .....	Feb.	72
Schwab, Gustav H.—Obituary .....	Dec.	440

# INDEX TO VOLUME XLII—Continued

Seal—Submarine torpedo boat—Description of.....Oct.	339	Titanic disaster—Ship construction bill introduced as result of.....June	232
Searchlights, Marine—Carlisle & Finch Co.....Feb.	72	Titanic disaster—Sir Wm. White's comment on.....July	242
Seattle Construction & Dry Dock Co.....March	88	Titanic disaster—Suggestions to the British Board of Trade.....Sept.	303
Seattle Dock Co.—Reorganization of.....March	104	Titanic—Loss of steamer.....May	156
Seattle—Development in.....Feb.	48	Titanic—Sailing of the steamer.....May	163
Seattle public wharves.....July	238	Titanic—Watertight doors of steamer.....May	162
See-and-Bee—Steamer—Description of.....Nov.	366	Toiler's experiences on the lakes—Oil-engined vessel.....Feb.	42
Selandia—Motor-driven ship—Correction on article in March issue.....April	116	Torpedo boat destroyer Beale—Trials of.....Sept.	316
Selandia—Motor-driven ship—Performance of.....Aug.	251	Torpedo boat destroyers Henley and Jarvis.....April	139
Selandia—Ocean-going motor-driven ship—Description of.....April	139	Towboat Panama—Gasoline.....Jan.	33
Selandia's consumption of oil.....Nov.	394	Towboats for South America—Built by James Rees & Son Co.....Sept.	296
Self-discharging collier Herman Sauber—Description of.....Dec.	395	Towing machine for Panama canal—Description of.....Jan.	11
Shannahan, J. H. K. Jr.—Timekeeping by Machinery.....Nov.	360	Trawlers Surf and Swell—Steam—Description of.....Jan.	22
Shaw, Steamer Quincy A.—Wheeler shallow water alarm on.....Jan.	34	Tug Richard Fitzgerald—Description of.....Oct.	329
Ship building at Seattle.....Jan.	10	Tugs Ontario and Sonoma—Particulars of.....Jan.	207
Ship building during year ended June 30, 1912.....July	243		
Ship building in coast yards.....Jan.	3	Unalga and Miami—New revenue cutters—Description of.....March	75
Ship building in coast yards.....March	79	Union Castle Line bought by Royal Mail Steam Packet Co.....May	156
Shipbuilding in coast yards—Summary of.....Aug.	268	Union Steamboat Line's fleet—Economy in fuel consumption.....Jan.	9
Shipbuilding in Germany.....Dec.	437	Union Sulphur Co., steamer Frieda—Launch of.....Nov.	387
Shipbuilding in Great Lakes yards—Summary of.....Aug.	269	United Fruit Co.—New steamers for.....Aug.	251
Shipbuilding on the coast—W. R. Grace & Co. orders four new steamers.....Aug.	275	United Fruit Co.'s new steamer Pastores—Description of.....Sept.	236
Shipbuilding on the great lakes.....Jan.	1	Unloading—First automatic.....Sept.	312
Ship building on the great lakes—Activity in.....April	137	Unloading record made by Str. Wm. P. Palmer.....Aug.	274
Ship construction bill—Introduced by Senator Smith.....June	202	Unloading record of steamer P. A. B. Widener.....Sept.	311
Ship painting.....March	85		
Sierra, Sonoma and Ventura—Oil-burning steamers.....April	130	Valves—Regrinding—National Tube Co.....Feb.	74
Sigaudy, J.—Channel steamer Newhaven.....May	165	Vassall, Robert—New dredger—Brief description of.....June	212
Smith, A. Cary—Obituary.....Jan.	31	Ventura, Sierra and Sonoma—Oil-burning steamers.....April	137
Smith, Schooner Wilbert L.—Remarkable record of.....May	168	Vessel losses on the great lakes during 1911.....Jan.	28
Society of Naval Architects and Marine Engineers—Twentieth annual meeting of.....Dec.	408	Vessel losses on the great lakes during 1912.....Dec.	443
Sonoma and Ontario—Naval tugs.....June	207	Vessels under contract or construction on great lakes for 1912 delivery—Table of.....Jan.	2
Sonoma and Ontario—Naval tugs—Description of.....Sept.	314	Vickers, Ltd., Messrs.—Description of their new floating dry dock for Montreal.....Sept.	293
Sonoma, Sierra and Ventura—Oil-burning steamers.....April	130	Virginian-Strathalbyn collision.....March	77
Sperry gyroscopic compass.....Sept.	318		
Star non-toppling block—Description of.....Sept.	316	Wastage of steel vessels—Decade's.....Aug.	262
Statistics of internal commerce.....Dec.	393	Watertight Subdivision of Liners—By Com. Wm. Hovgaard.....July	227
Steamer inspection rulings—Excerpts from letters concerning them.....May	176	Water-tube boiler—Description of new type.....March	105
Steamboat Inspection Service—Changes rules regarding life saving equipment.....July	226	Welding by the oxy-acetylene process.....Oct.	354
Steamboat inspection service—Circular on operating ships without license.....Sept.	290	Welin davits.....June	210
Steam Engineering—Marine—By Theodore Lucas.....Nov.	382	Welin davits.....June	246
Steel barge designed by Jones & Laughlin Steel Co.....Feb.	59	Whalen, James—Tug—Description of.....Aug.	262
"Steel Rivets"—By D. J. Champion.....April	140	Whaling steamers for Alaska Whaling Co.—Description of.....April	126
Stranding of the tug M. Mitchell Davis.....Oct.	351	Whaling steamers to be equipped with Diesel engines.....May	153
Strathalbyn-Virginian collision.....March	77	Wheeler shallow water alarm.....Jan.	34
Straus bascule bridge.....Aug.	283	Wheeler shallow water alarm.....April	142
Submarine boats E-1 and E-2—Description of their engine installations—Diesel oil type.....May	143	White, Sir Wm.—Comment on Titanic disaster.....July	242
Submarine F-3—Trials of.....July	235	White, Sir Wm. Henry—Remarks on handling of freight in port.....Feb.	51
Submarine torpedo boat Seal.....Oct.	339	White Star Line—Ownership of.....June	212
Suction experiments.....Nov.	386	Widener, Steamer P. A. B.—Ore unloading record.....Sept.	311
Sulphur Dioxide Fumigator.....Feb.	74	Williams, Henry—Ship painting.....March	85
Superheaters in marine boilers—By Harold E. Yarrow.....May	149	Williams, Henry—Steamer—Brief description of.....July	237
Surf and Swell—Steam trawlers—Description of.....Jan.	22	Wilson, J. Rendell—Diesel engines in whalers.....May	153
Swan & Hunter—Expansion of.....Dec.	406	Wilson, J. Rendell—Semi-Diesel heavy oil engine.....Oct.	344
Swell and Surf—Steam trawlers—Description of.....Jan.	22	Wilson Seamen's Bill.....Dec.	441
		Winter mooring list of lake vessels.....Jan.	36
Tacoma harbor—Improvement of.....March	95	Winton heavy duty marine engine.....Nov.	394
Taylor, Stevenson—Presidential address at Naval Architects' meeting.....Dec.	409	Wood, W. J.—Construction of the Titanic.....May	160
Taylor, Stevenson—Tribute paid him at Naval Architects' meeting.....Dec.	431	Wyoming—Battleship—Trials of.....Sept.	285
Terminals at Panama.....March	78		
Terminals—Private Monopoly of.....July	232	Yarrow, Harold E.—Superheaters in marine boilers.....May	149
Terry turbine-driven lighting sets.....Sept.	315		
Texas—Battleship—Launched.....June	208		
Thompson, Robert M.—Steamer—Leaves for coast.....Sept.	311		
Thousand Islander—Description of steamer.....Aug.	252		
Time keeping by machinery—By J. H. K. Shannahan Jr.....Nov.	360		
Titanic—Construction of steamer—By W. J. Wood.....May	160		
Titanic disaster—Opinion of Germans on.....Sept.	313		
Titanic disaster—Scope of British inquiry in.....May	162		